## WHAT IS CLAIMED IS:

1. A method of analyzing grammar using a part-of-speech tagged parser with a templatebased computer-assisted learning system comprising the steps of:

preassigning words and phrases of an input sentence with part-of-speech tags; regarding any phrase preassigned with a part-of-speech tag as one word; setting a probability of preassigned words having a given tag as 1; setting a probability of nonassigned words having a given tag as 0; obtaining a plurality of grammar trees;

finding a combination within said plurality of grammar trees to maximize probability of the final grammar tree being any of a grammar tree with the following formula to choose the one with largest probability  $P_{tree}$ :

$$P_{tree}(T) = \prod_{rule, m} P_{rule, \bullet} \bullet \prod_{tag_j \text{ of word } j \text{ m } T} (P(tag_j | word_j))^2$$

where  $P_{rule_i}$  denotes the probability of a rule to take on rule i,  $P(tag_j | word_j)$  is the probability of the word j being assigned to part-of-speech tag be  $tag_j$ .

2. A method of applying a part-of-speech tagged (POST) parser in a template-automaton-based computer-assisted language learning system, comprising the steps of:

reading a keyed-in sentence;

checking the sentence with a standard spell check model, and correcting spelling errors;

finding a best matched path having a highest similarity value with the input sentence, providing lexical error information, feedback information as well as a score of the input sentence;

according to the error feedback information, finding a correct path in the template; applying the POST parser to obtain a syntactically bracketed grammar structure for the correct path; and

drawing the parsed tree of the correct path and marking the errors at leaves of the relevant tree.